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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

§ §

Application. No:

10/082,783

Filed:

02/25/02

hyventor(s):

John P. Havener, Stephen Piche, Donald Semrad, Brian K.

Stephenson

Title:

METHOD FOR OPTIMIZING A PLANT WITH MULTIPLE

INPUTS

Examiner:

Bahta, Kidest

Group/Art Unit:

2125

Atty. Dkt. No:

5650-04210

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, Alexandria, VA 22313-1450, on the date indicated below.

Jeffrey C. Hood

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Signatu

TRANSMITTAL OF POWER OF ATTORNEY AND NOTICE OF CHANGE OF ADDRESS

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir/Madam:

Please find attached a Power of Attorney with regard to the above-identified patent application. Applicant respectfully requests the Commissioner to change the correspondence address for the above-identified patent application. The old correspondence address was:

Howison & Arnott, L.L.P. P.O. Box 741715 Dallas, TX 75374-1715

Applicant's new address is:

Pavilion Technologies, Inc. 10415 Morado Circle Building III, Suite 100 Austin, Texas 78759 (512) 438-1400

If there are any questions regarding this matter, please contact me.

Respectfully submitted,

Jeffrey C. Hood Reg. No. 35,198

Meyertons, Hood, Kivlin, Kowert & Goetzel PC P.O. Box 398
Austin, Texas 78767-0398

(512) 853-8800

Date: 8.22.06



POWER OF ATTORNEY

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

PAVILION TECHNOLOGIES, INC., ("assignee"), a Delaware corporation having a place of business at 10415 Morado Circle, Building III, Suite 100, Austin, Texas 78758-5638, certifies that to the best of assignee's knowledge and belief it is the assignee of the entire right, title, and interest in and to the patents or patent applications listed on the attached Appendix A and represents that the undersigned is a representative authorized and empowered to sign on behalf of the assignee.

Assignee's ownership of the patents or patent applications listed on the attached Appendix A is indicated either by 1) the assignment(s) recorded with the U.S. Patent and Trademark Office at the reel and frame numbers listed on Appendix A or 2) Assignee's assertion that Assignee has reviewed the assignment documents that evidence the placement of title in the assignee, true and correct copies of which are attached hereto, and understands and believes that these assignment documents have been submitted for recordation in the U.S. Patent and Trademark Office.

Pursuant to 37 C.F.R. §§1.36 and 3.71, the assignee hereby revokes all powers of attorney previously given and appoints the following attorneys and/or agents in connection with the patent applications and patents identified in Appendix A, that are filed with the United States Patent and Trademark Office:

the practitioners at Customer Number 35690, which currently includes:

Mark K. Brightwell	Reg. No. 47,446	Mario J. Lewin	Reg. No. 54,268
Jason L. Burgess	Reg. No. 50,380	Lawrence J. Merkel	Reg. No. 41,191
Kay A. Colapret	Reg. No. 52,759	Eric B. Meyertons	Reg. No. 34,876
Steve J. Curran	Reg. No. 50,664	Dean M. Munyon	Reg. No. 42,914
Mark R. DeLuca	Reg. No. 44,649	Neal E. Persky	Reg. No. 53,452
Gaurav Goel	Reg. No. 56,804	David W. Quimby	Reg. No. 39,338
Russell E. Henrichs	Reg. No. 50,354	Rory D. Rankin	Reg. No. 47,884
Erik A. Heter	Reg. No. 50,652	Gareth M. Sampson	Reg. No. 52,191
Jeffrey C. Hood	Reg. No. 35,198	Chris D. Thompson	Reg. No. 43,188
B. Noël Kivlin	Reg. No. 33,929	Mark S. Williams	Reg. No. 50,658
Robert C. Kowert	Reg. No. 39,255	Martin R. Wojcik	Reg. No. 57,577

each of said attorneys or agents being a member or an associate of the firm of Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C., as its attorney or agent for so long as they remain with such firm, with full power of substitution and revocation, to prosecute the application, to make alterations and amendments therein, to transact all business in the Patent and Trademark Office in connection therewith, and to receive any Letters Patent, and for one year after issuance of such Letters Patent to file any request for a certificate of correction that may be deemed appropriate.

Pursuant to 37 C.F.R. §3.71, the assignee hereby states that prosecution of the above-referenced patent application is to be conducted to the exclusion of the inventor(s).

Send all future correspondence to:

Jeffrey C. Hood

Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C.

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Austin, Texas 78767-0398

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Assignee of Interest:

PAVILION TECHNOLOGIES, INC.

10415 Morado Circle Building III, Suite 100 Austin, Texas 78758-5638

Dated: July 27

Name: Te Reg. No.:

Title:

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Assignment Recordation Reel/Frame Nos.	010844/0464 (from parent) 015545/0855 (from parent)	008107/0365 010405/0041 012252/0160 011944/0930	010405/0041 010321/0843 010452/0001 011944/0930 011958/0068	009134/0855 010405/0041 012252/0160 010321/0843 010452/0001 011958/0068	009558/0968 010405/0041 010321/0843 010452/0001 011944/0930	010844/0464	010844/0464 (from parent) 015545/0855
Patent No.		5,933,345	6,487,459	6,047,221	6,278,899	6,493,596	6,735,483
Date Issued		08/03/66	11/26/02	04/04/00	08/21/01	12/10/02	05/11/04
Serial No.	11/359,114	08/643,464	09/250,432	08/943,489	09/167,504	09/514,733	10/314,675
Date Filed	02/21/06	96/90/50	02/16/99	10/03/97	10/06/98	02/28/00	12/09/02
Inventor(s)	Gregory D. Martin, Eugene Boe, Stephen Piche, James David Keeler, Douglas Timmer, Mark Gerules and	Gregory D. Martin, Eugene Boe, Stephen Piche, James David Keeler, Douglas Timmer, Mark Gerules, John P. Havener	Gregory D. Martin, Eugene Boe, Stephen Piche, James David Keeler, Douglas Timmer, Mark Gerules, John P.	Stephen Piche, James David Keeler, Eric Hartman, William D. Johnson, Mark Gerules, Kadir Liano	Stephen Piche, John P. Havener, Donald Semrad	Gregory D. Martin, Eugene Boe, Stephen Piche, James David Keeler, Douglas Timmer, Mark Gerules, John P.	Gregory D. Martin, Eugene Boe, Stephen Piche, James David Keeler, Douglas Timmer, Mark Gerules, John P. Havener
Title	COORDINATED KILN CONTROL AND OPTIMIZATION	METHOD AND APPARATUS FOR DYNAMIC AND STEADY STATE MODELING OVER A DESIRED PATH BETWEEN TWO END POINTS	METHOD AND APPARATUS FOR MODELING DYNAMIC AND STEADY-STATE PROCESSES FOR PREDICTION, CONTROL AND OPTIMIZATION	METHOD FOR STEADY-STATE IDENTIFICATION BASED UPON IDENTIFIED DYNAMICS	METHOD FOR ON-LINE OPTIMIZATION OF A PLANT	METHOD AND APPARATUS FOR CONTROLLING A NON-LINEAR MILL	METHOD AND APPARATUS FOR CONTROLLING A NON-LINEAR MILL
MHKKG Docket No.	5650-04102	5650-04200	5650-04201	5650-04202	5650-04203	5650-04204	5650-04205

Assignment Recordation Reel/Frame Nos.	015541/0393	009779/0036 010405/0041 010321/0843 010452/0001 011958/0068	011484/0309 (from parent) 015541/0393 (from parent) 017240/0396	010405/0041 010321/0843 010452/0001 011944/0930 011958/0068 (all from parent) 017240/0396	009779/0036 010405/0041 010321/0843 010452/0001 011958/0068 (all from parent)
Patent No.	6,438,430	6,381,504	6,625,501	6,738,677	6,950,711
Date Issued	08/20/02	04/30/02	09/23/03	05/18/04	09/27/05
Serial No.	09/568,190	09/224,648	10/218,970	10/302,923	10/082,783
Date . Filed	09/60/50	12/31/98	08/14/02	11/22/02	02/25/02
Inventor(s)	Gregory D. Martin, Eugene Boe, Stephen Piche, James David Keeler, Douglas Timmer, Mark Gerules, John P.	John P. Havener, Stephen Piche, Donald Semrad, Brian K. Stephenson	Gregory D. Martin, Eugene Boe, Stephen Piche, James David Keeler, Douglas Timmer, Mark Gerules and John P. Havener	Gregory D. Martin, Eugene Boe, Stephen Piche, James David Keeler, Douglas Timmer, Mark Gerules and John P. Havener	John P. Havener, Stephen Piche, Donald Semrad, Brian K. Stephenson
Title	KILN THERMAL AND COMBUSTION CONTROL	METHOD FOR OPTIMIZING A PLANT WITH MULTIPLE INPUTS	KILN THERMAL AND COMBUSTION CONTROL	METHOD AND APPARATUS FOR MODELING DYNAMIC AND STEADY-STATE PROCESSES FOR PREDICTION, CONTROL AND OPTIMIZATION	METHOD FOR OPTIMIZING A PLANT WITH MULTIPLE INPUTS
MHKKG Docket No.	5650-04206	5650-04207	5650-04208	5650-04209	5650-04210

Assignment Recordation Reel/Frame Nos	008107/0365 010405/0041 012252/0160 011944/0930 017240/0396 (all from parent) 010321/0843 010452/0001 011958/0068	008107/0365 010405/0041 012252/0160 011944/0930 017240/0396 (all from parent) 010321/0843 010452/0001 011958/0068	N/A	008107/0365 010405/0041 012252/0160 011944/0930 017240/0396 (all from parent) 009134/0855 010321/0843 010452/0001 011958/0068 (all from parent) 009558/0968
Patent No.		·		
Date Issued				
Serial No.	11/359,295	11/359,296	60/153,791	11/396,486
Date Filed	02/21/06	02/21/06	09/14/99	04/03/06
Inventor(s)	Gregory D. Martin, Eugene Boe, Stephen Piche, James David Keeler, Douglas Timmer, Mark Gerules and John P. Havener	Gregory D. Martin, Eugene Boe, Stephen Piche, James David Keeler, Douglas Timmer, Mark Gerules and John P. Havener	Eric J. Hartman, Stephen Piche and Mark Gerules	Eric J. Hartman, Stephen Piche and Mark Gerules
Title	ROBUST MODELING OF DYNAMIC AND STEADY-STATE PROCESSES FOR PREDICTION, CONTROL AND OPTIMIZATION	ROBUST MODELING OF DYNAMIC AND STEADY-STATE PROCESSES FOR PREDICTION, CONTROL, AND OPTIMIZATION	METHOD AND APPARATUS FOR TRAINING A SYSTEM MODEL WITH GAIN CONSTRAINTS	METHOD AND APPARATUS FOR TRAINING A SYSTEM MODEL WITH GAIN CONSTRAINTS
MHKKG Docket No.	5650-04224	5650-04225	5650-04300	5650-04303

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Assignment Recordation Reel/Frame Nos.	008107/0365 010405/0041 012252/0160 011944/0930 017240/0396 (all from parent) 009134/0855 010321/0843 010452/0001 011958/0068 (all from parent) 009558/0968 (from parent)	N/A	017240/0396 017240/0396	N/A	010023/0119 010405/0041 010321/0843 010452/0001 011944/0930	N/A	011424/0021
Patent No.			6,839,599		6,725,208		6,678,585
Date Issued			01/04/05		04/20/2004		01/13/04
Serial No.	11/396,868	60/276,272	10/098,179	60/103,269	09/290,791	60/156,472	09/676,043
Date Filed	04/03/06	03/15/01	03/14/02	10/06/98	04/12/99	09/28/99	09/28/00
Inventor(s)	Eric J. Hartman, Stephen Piche and Mark Gerules	Gregory D. Martin	Gregory D. Martin, Steven J. McGarel.	Eric Hartman, Carsten Peterson	Eric Jon Hartman, Carsten Peterson, Stephen Piche	John P. Havener	John P. Havener
Title	METHOD AND APPARATUS FOR TRAINING A SYSTEM MODEL WITH GAIN CONSTRAINTS	KILN/COOLER CONTROL AND UPSET RECOVERY USING A COMBINATION OF MODEL PREDICTIVE CONTROL AND EXPERT SYSTEMS	KILN/COOLER CONTROL AND UPSET RECOVERY USING A COMBINATION OF MODEL PREDICTIVE CONTROL AND EXPERT SYSTEMS	BAYESIAN NEURAL NETWORK FOR OPTIMIZATION	BAYESIAN NEURAL NETWRKS FOR OPTIMIZATION AND CONTROL	METHOD AND APPARATUS FOR MAXIMIZING POWER USAGE IN A POWER PLANT	METHOD AND APPARATUS FOR MAXIMIZING POWER USAGE IN A POWER PLANT
MHKKG Docket No.	5650-04304	5650-04400	5650-04401	5650-04500	5650-04501	5650-04600	5650-04601

Assignment	Recordation Reel/Frame Nos.	9675/0652	N/A	006239/0859 010121/0826 010405/0041 012252/0160 010321/0843 010452/0001 011944/0930	006239/0859 (from parent) 010121/0826 010405/0041 012252/0160 011944/0930	006239/0859 (from parent) 010121/0826 010405/0041 012252/0160 011944/0930
Patent No.				5,353,207	5,559,690	5,859,773
Date Issued				10/04/94	09/24/96	01/12/99
Serial No.		09/167,063	60/262,935	07/896,755	08/307,521	08/717,719
Date	Filed	86/90/01	01/19/01	06/10/92	09/16/94	09/23/96
Inventor(s)		James D. Keeler, Edward S. Plumer and Joshua Breennan Ellinger	Edmond Herschap III, Timothy J. Magnuson, Thomas J. Traughber and Kasey White	James D. Keeler, Eric J. Hartman, Kadir Liano and Ralph B. Ferguson	James D. Keeler, Eric J. Hartman, Kadir Liano and Ralph B. Ferguson	James David Keeler, Eric Jon Hartman, Kadir Liano and Ralph Bruce Ferguson
Tifle		METHOD AND SYSTEM FOR MONITORING AND CONTROLLING MANUFACTURING PROCESS PERSONANCE INDICATORS	E-COMMERCE SYSTEM USING MODELING OF INDUCEMENTS TO CUSTOMERS	RESIDUAL ACTIVATION NEURAL NETWORK	RESIDUAL ACTIVATION NEURAL NETWORK	RESIDUAL ACTIVATION NEURAL NETWORK
JAARM	Docket No.	5650-04700	5650-04800	5650-04900	5650-04901	

Assignment Recordation Reel/Frame Nos.	006239/0859 (from parent) 010121/0826 (from parent) 010405/0041 010321/0843	011944/0930 (from parent) 017240/0396	009483/0950(from parent) 010321/0843 010452/0001 011954/0930 017240/0396	009483/0950(trom parent) 010321/0843 010452/0001 011944/0930 011958/0068 017240/0396 (all from parent)
Patent No.	6,363,289	6,985,781	6,314,414	6,591,254
Date Issued	03/26/02	01/10/06	11/06/01	07/08/03
Serial No.	09/228,962	10/041,157	09/207,719	10/040,085
Date Filed	01/12/99	01/08/02	12/08/98	11/06/01
Inventor(s)	James David Keeler, Eric Jon Hartman, Kadir Liano and Ralph Bruce Ferguson	James David Keeler, Eric Jon Hartman, Kadir Liano and Ralph Bruce Ferguson	James David Keeler, Eric Jon Hartman and Ralph Bruce Ferguson	James David Keeler, Eric Jon Hartman and Ralph Bruce Ferguson
Title	RESIDUAL ACTIVATION NEURAL NETWORK	RESIDUAL ACTIVATION NEURAL NETWORK	METHOD FOR TRAINING AND/OR TESTING A NEURAL NETWORK WITH MISSING AND/OR INCOMPLETE DATA	METHOD AND APPARATUS FOR OPERATING A NEURAL NETWORK WITH MISSING AND/OR INCOMPLETE DATA
MHKKG Docket No.	5650-04903	5650-04904	5650-05000	5650-05001

Assignment Recordation Reel/Frame Nos.	009483/0950(from parent) 012252/0160(from parent) 010121/0826 010405/0041 010321/0843 010452/0001 011958/0068 (all from parent)	006659/0368 010405/0041 012252/0160 010321/0843 010452/0001 011944/0930 011958/0068	006659/0368 010405/0041 010321/0843 010452/0001 011958/0068 (all from parent) 012252/0160 011944/0930
Patent No.	6,957,203	5,386,373	5,548,528
Date Issued	10-18-2005	01/31/95	08/20/96
Serial No.	10/614,335	08/102,405	08/380,062
Date Filed	07/07/03	08/05/93	01/30/95
Inventor(s)	James David Keeler, Eric Jon Hartman and Ralph Bruce Ferguson	James D. Keeler, John P. Havener, Devendra Godbole and Ralph B. Ferguson	James D. Keeler, John P. Havener, Devendra Godbole and Ralph B. Ferguson, II
Title	METHOD AND APPARATUS FOR OPERATING A NEURAL NETWORK WITH MISSING AND/OR INCOMPLETE DATA	VIRTUAL CONTINUOUS EMISSION MONITORING SYSTEM WITH SENSOR VALIDATION	VIRTUAL CONTINUOUS EMISSION MONITORING SYSTEM
MHKKG Docket No.	5650-05002	5650-05100	5650-05101

Assignment	Recordation Reel/Frame Nos.	006659/0368 012252/0160 010321/0843 010452/0001 011944/0930	(all Holl parent) 006935/0138 010405/0041 012252/0160 017240/0396	006659/0368 010321/0843 010452/0001 011958/0068 (all from parent)	006935/0138(from parent)	010405/0041 012252/0160 011944/0930 017240/0396
Patent No.		5,539,638	-	5,682,317		
Date Issued		07/23/96		10/28/97		
Sorial No.	Scribition	08/149,216		08/685,072		
25.00	Filed	11/05/93		07/23/96		
()	Inventor(s)	James D. Keeler, John P. Havener, Devendra Godbole and Ralph B. Ferguson, II		James David Keeler, John Paul Havener, Devendra Godbole and Ralph Bruce Ferguson, II		
	Title	VIRTUAL EMISSIONS MONITOR FOR AUTOMOBILE		VIRTUAL EMISSIONS MONITOR FOR AUTOMOBILE AND ASSOCIATED CONTROL SYSTEM		
	MHKKG Docket No.	5650-05102		5650-05103		

Assignment Recordation Reel/Frame Nos.	006413/0016 010121/0826 0102252/0160 (all from parent) 009501/0530 010405/0041 010452/0001 011944/0930 011958/0068 (all from parent)	010405/0041 010321/0843 010452/0001 011944/0930 011958/0068 017240/0396	parent) 010321/0843(from parent) 010405/0041 010452/0001 011944/0930 011958/0068
Patent No.	6,879,971	3,823,040	0,410,040
Date Issued	04/12/05	10/20/98	04/10/01
Serial No.	09/874,591	08/656,702	09/174,860
Date Filed	10/50/90	96/03/96	86/61/01
Inventor(s)	James D. Keeler, Eric J. Hartman, Devendra B. Godbole, Steve Piche, Laura Arbila, Joshua Ellinger, R. Bruce Ferguson, II, John Krauskop, Jill L. Kempf, Steven A. O'Hara, Audrey Strauss and Jitendra W. Telang	James David Keeler, Eric J. Hartman and Kadir Liano	James David Keeler, Eric Jon Hartman and Kadir Liano
Title	AUTOMATED METHOD FOR BUILDING A MODEL	METHOD AND APPARATUS FOR DETERMINING THE SENSITIVITY OF INPUTS TO A NEURAL NETWORK ON OUTPUT PARAMETERS	METHOD AND APPARTUS FOR DETERMINING THE SENSITIVITY OF INPUTS TO A NEURAL NETWORK ON OUTPUT PARAMETERS
MHKKG Docket No.	5650-05200	5650-05300	5650-05301

Assignment Recordation Reel/Frame Nos.	010121/0826 010405/0041 010321/0843 010452/0001 011958/0068 017240/0396	007759/0726 010121/0826 010405/0041 012252/0160 011944/0930	007759/0726 010121/0826 (all from parent) 010405/0041 012252/0160 011944/0930 017240/0396
Patent No.	5,781,432	5,768,475	5,950,182
Date Issued	07/14/98	06/16/98	66/10/60
Serial No.	08/759,539	08/450,086	09/015,984
Date Filed	12/04/96	05/25/95	01/30/98
Inventor(s)	James David Keeler and Eric Jon Hartman	Devendra Bhalchandra Godbole, Steven Arthur O'Hara, Mary Anne Harding and Joshua Brennan Ellinger	Devendra Bhalchandra Godbole, Steven Arthur O'Hara, Mary Anne Harding and Joshua Brennan Ellinger
Title	METHOD AND APPARATUS FOR ANALYZING A NEURAL NETWORK WITHIN DESIRED OPERATING PARAMETER CONSTRAINTS	METHOD AND APPARATUS FOR AUTOMATICALLY CONSTRUCTING A DATA FLOW ARCHITECTURE	METHOD AND APPARATUS FOR AUTOMATICALLY CONSTRUCTING A DATA FLOW ARCHITECTURE
MHKKG Docket No.	5650-05400	5650-05500	5650-05501